Examiner Eugene Kim
Examiner Sameh Tawfik
Art Unit: 3721

Docket No.: NHL-HOL-55
Serial No.: 09/942,254
Fax No.: 703-872-9306

INFORMAL PROPOSED CLAIMS FOR TELEPHONIC INTERVIEW

A. (proposed) A product pasteurizing section for a beverage container filling plant for filling beverage containers such as bottles or containers with a beverage, said product pasteurizing section being configured to permit at least heating and cooling of the content in containers, said product pasteurizing section comprising:

a housing comprising a roof arrangement, an inlet arrangement configured to receive containers into said housing, and an outlet arrangement configured to discharge containers from said housing;

a plurality of spray arrangements being disposed within said roof arrangement;

each of said plurality of spray arrangements comprising a spray nozzle being configured to spray a stream of liquid;

each of said spray nozzles being disposed integrally within said roof arrangement;

said plurality of spray arrangements and said roof arrangement being configured to be disposed above the containers to permit spraying of containers from above the containers;

said plurality of spray arrangements in said roof arrangement comprising:

a first roof portion of spray arrangements;

said first roof portion being configured:

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to receive containers from said inlet arrangement;

and

to be disposed to heat the beverage in containers with a first, heated, spray of liquid having a predetermined first temperature to bring the beverage in containers to a temperature below the pasteurization temperature of the beverage;

a second roof portion of spray arrangements;

said second roof portion being configured to pasteurize the beverage in containers with a second, heated, spray of liquid having a predetermined second temperature to bring the beverage in containers to the pasteurization temperature of the beverage; and

a third roof portion of spray arrangements;

said third roof portion being configured to cool the beverage in containers with a third spray of liquid having a predetermined third temperature to bring the beverage in containers to a temperature below said second temperature;

said second roof portion being configured:

to be disposed adjacent to said first roof portion;

and

to receive containers from said first roof portion; and

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said third roof portion being configured:

to be disposed adjacent to said second roof portion;

to receive containers from said second roof portion;

and

to discharge containers through said outlet

arrangement from said housing.

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B. (proposed) A product pasteurizing section for a beverage container filling plant for filling beverage containers such as bottles or containers with a beverage, said product pasteurizing section being configured to permit at least heating and cooling of the content in containers, said product pasteurizing section comprising:

a housing comprising a roof arrangement, an inlet arrangement configured to receive containers into said housing, and an outlet arrangement configured to discharge containers from said housing;

a plurality of spray arrangements being disposed within said roof arrangement;

each of said plurality of spray arrangements comprising a spray nozzle being configured to spray a stream of liquid;

said roof arrangement comprising an outer, upper, roof surface and an inner, lower, roof surface disposed opposite and below said inner, upper, roof surface;

each of said spray nozzles being disposed on said second, lower, roof surface;

said plurality of spray arrangements and said roof arrangement being configured to be disposed above the containers to permit spraying of containers from above the containers;

said plurality of spray arrangements in said roof arrangement comprising:

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a first roof portion of spray arrangements;

said first roof portion being configured:

to receive containers from said inlet arrangement;

and

to be disposed to heat the beverage in containers with a first, heated, spray of liquid having a predetermined first temperature to bring the beverage in containers to a temperature below the pasteurization temperature of the beverage;

a second roof portion of spray arrangements;

said second roof portion being configured to pasteurize the beverage in containers with a second, heated, spray of liquid having a predetermined second temperature to bring the beverage in containers to the pasteurization temperature of the beverage; and

a third roof portion of spray arrangements;

said third roof portion being configured to cool the beverage in containers with a third spray of liquid having a predetermined third temperature to bring the beverage in containers to a temperature below said second temperature;

said second roof portion being configured:

to be disposed adjacent to said first roof portion;

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and

to receive containers from said first roof portion; and

said third roof portion being configured:

to be disposed adjacent to said second roof portion;

to receive containers from said second roof portion;

and

to discharge containers through said outlet arrangement from said housing.

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C. (proposed) A product pasteurizing section for a beverage container filling plant for filling beverage containers such as bottles or containers with a beverage, said product pasteurizing section being configured to permit at least heating and cooling of the content in containers, said product pasteurizing section comprising:

a housing comprising a roof arrangement, an inlet arrangement configured to receive containers into said housing, and an outlet arrangement configured to discharge containers from said housing;

a plurality of spray arrangements being disposed within said roof arrangement;

each of said plurality of spray arrangements comprising a spray nozzle being configured to spray a stream of liquid;

said roof arrangement comprising an outer, upper, roof surface and an inner, lower, roof surface disposed opposite and below said inner, upper, roof surface;

each of said spray nozzles being disposed immediately adjacent said second, lower, roof surface;

said plurality of spray arrangements and said roof arrangement being configured to be disposed above the containers to permit spraying of containers from above the containers;

said plurality of spray arrangements in said roof arrangement comprising:

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a first roof portion of spray arrangements;

said first roof portion being configured:

to receive containers from said inlet arrangement;

and

to be disposed to heat the beverage in containers with a first, heated, spray of liquid having a predetermined first temperature to bring the beverage in containers to a temperature below the pasteurization temperature of the beverage;

a second roof portion of spray arrangements;

said second roof portion being configured to pasteurize the beverage in containers with a second, heated, spray of liquid having a predetermined second temperature to bring the beverage in containers to the pasteurization temperature of the beverage; and

a third roof portion of spray arrangements;

said third roof portion being configured to cool the beverage in containers with a third spray of liquid having a predetermined third temperature to bring the beverage in containers to a temperature below said second temperature;

said second roof portion being configured:

to be disposed adjacent to said first roof portion;

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and

to receive containers from said first roof portion; and

said third roof portion being configured:

to be disposed adjacent to said second roof portion;

to receive containers from said second roof portion;

and

to discharge containers through said outlet arrangement from said housing.

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D. (proposed) A product pasteurizing section for a beverage container filling plant for filling beverage containers such as bottles or containers with a beverage, said product pasteurizing section being configured to permit at least heating and cooling of the content in containers, said product pasteurizing section comprising:

a housing comprising a roof arrangement, an inlet arrangement configured to receive containers into said housing, and an outlet arrangement configured to discharge containers from said housing;

a plurality of spray arrangements being disposed within said roof arrangement;

each of said plurality of spray arrangements comprising a spray nozzle being configured to spray a stream of liquid;

said roof arrangement comprising an outer, upper, roof surface and an inner, lower, roof surface disposed opposite and below said inner, upper, roof surface;

each of said spray nozzles being disposed in contact with said second, lower, roof surface;

said plurality of spray arrangements and said roof arrangement being configured to be disposed above the containers to permit spraying of containers from above the containers;

said plurality of spray arrangements in said roof arrangement comprising:

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a first roof portion of spray arrangements;

said first roof portion being configured:

to receive containers from said inlet arrangement;

and

to be disposed to heat the beverage in containers with a first, heated, spray of liquid having a predetermined first temperature to bring the beverage in containers to a temperature below the pasteurization temperature of the beverage;

a second roof portion of spray arrangements;

said second roof portion being configured to pasteurize the beverage in containers with a second, heated, spray of liquid having a predetermined second temperature to bring the beverage in containers to the pasteurization temperature of the beverage; and

a third roof portion of spray arrangements;

said third roof portion being configured to cool the beverage in containers with a third spray of liquid having a predetermined third temperature to bring the beverage in containers to a temperature below said second temperature;

said second roof portion being configured:

to be disposed adjacent to said first roof portion;

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and

to receive containers from said first roof portion; and

said third roof portion being configured:

to be disposed adjacent to said second roof portion;

to receive containers from said second roof portion;

and

to discharge containers through said outlet arrangement from said housing.

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E. (proposed) A product pasteurizing section for a beverage container filling plant for filling beverage containers such as bottles or containers with a beverage, said product pasteurizing section being configured to permit at least heating and cooling of the content in containers, said product pasteurizing section comprising:

a housing comprising a roof arrangement, an inlet arrangement configured to receive containers into said housing, and an outlet arrangement configured to discharge containers from said housing;

a plurality of spray arrangements being disposed within said roof arrangement;

each of said plurality of spray arrangements comprising a spray nozzle being configured to spray a stream of liquid;

said roof arrangement comprising an outer, upper, roof surface and an inner, lower, roof surface disposed opposite and below said inner, upper, roof surface;

each of said spray nozzles being disposed on, immediately adjacent, and in contact with said second, lower, roof surface;

said plurality of spray arrangements and said roof arrangement being configured to be disposed above the containers to permit spraying of containers from above the containers;

said plurality of spray arrangements in said roof arrangement comprising:

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a first roof portion of spray arrangements;

said first roof portion being configured:

to receive containers from said inlet arrangement;

and

to be disposed to heat the beverage in containers with a first, heated, spray of liquid having a predetermined first temperature to bring the beverage in containers to a temperature below the pasteurization temperature of the beverage;

a second roof portion of spray arrangements;

said second roof portion being configured to pasteurize the beverage in containers with a second, heated, spray of liquid having a predetermined second temperature to bring the beverage in containers to the pasteurization temperature of the beverage; and

a third roof portion of spray arrangements;

said third roof portion being configured to cool the beverage in containers with a third spray of liquid having a predetermined third temperature to bring the beverage in containers to a temperature below said second temperature;

said second roof portion being configured:

to be disposed adjacent to said first roof portion;

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and

to receive containers from said first roof portion; and

said third roof portion being configured:

to be disposed adjacent to said second roof portion;

to receive containers from said second roof portion;

and

to discharge containers through said outlet arrangement from said housing.